飞机起落架测试报告

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| --- | --- |
| 测试大纲 | /TestStand/飞机起落架测试大纲\_v1.0.0.0.docx |
| CSV激励文件 | /TestStand/LandingGear\_Stimulus\_v1.0.0.0.csv |
| CSV测试文件 | /TestStand/LandingGear\_Test\_v1.0.0.0.csv |
| TestStand测试序列 | /TestStand/Demo-VeriStandStep-TS2017.seq\_v1.0.0.0.seq |
| Word报告模板 | /TestStand/Word Report/LandingGearTestReportTemplate\_v1.1.0.0.dotx |

|  |  |
| --- | --- |
| 测试开始时间 | Wednesday, June 7, 2023, 17:56:41 |
| 测试结束时间 | Wednesday, June 7, 2023, 17:58:52 |
| 操作员 | administrator |
| UUT编号 |  |
| 测试结果 | Failed |

# 功能测试

## 激励给定

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | 阶段 | 激励文件标签 | 激励开始时间 System Time [s] | 激励结束时间 System Time [s] |
| 1 | 启动阶段 | #Startup | 106.5 | 127.8 |
| 2 | 测试阶段 | #Action | 128.0 | 191.6 |
| 3 | 停止阶段 | #Cleanup | 212.8 | 212.8 |

## 测试指标：N电机电流不超过0.4A

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| System Time [s] | N Motor Current [A] | Low Limit [A] | High Limit [A] | Test Result |
| 128.0 | -0.00416797 | -0.2 | 0.4 | Passed |
| 130.7 | 0.385392 | -0.2 | 0.4 | Passed |
| 132.9 | 0.385038 | -0.2 | 0.4 | Passed |
| 135.2 | 0.384716 | -0.2 | 0.4 | Passed |
| 137.5 | -0.00416797 | -0.2 | 0.4 | Passed |
| 139.9 | -0.00397466 | -0.2 | 0.4 | Passed |
| 142.4 | -0.00413575 | -0.2 | 0.4 | Passed |
| 145.0 | -0.0720212 | -0.2 | 0.4 | Passed |
| 147.5 | -0.0821701 | -0.2 | 0.4 | Passed |
| 150.1 | -0.0834589 | -0.2 | 0.4 | Passed |
| 152.4 | -0.00397466 | -0.2 | 0.4 | Passed |
| 155.0 | -0.00416797 | -0.2 | 0.4 | Passed |
| 157.4 | -0.0043935 | -0.2 | 0.4 | Passed |
| 159.7 | -0.00397466 | -0.2 | 0.4 | Passed |
| 162.1 | -0.00384578 | -0.2 | 0.4 | Passed |
| 164.6 | -0.00429685 | -0.2 | 0.4 | Passed |
| 167.5 | -0.00423241 | -0.2 | 0.4 | Passed |
| 169.9 | -0.00407132 | -0.2 | 0.4 | Passed |
| 172.4 | -0.00397466 | -0.2 | 0.4 | Passed |
| 174.8 | -0.00423241 | -0.2 | 0.4 | Passed |
| 177.3 | -0.00381356 | -0.2 | 0.4 | Passed |
| 180.1 | -0.00416797 | -0.2 | 0.4 | Passed |

## 测试指标：实际执行位置/角度与仿真数据误差不超过10%

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| System Time  [s] | Simulated Position  [degree] | Actual Position  [degree] | Accuracy  [%] | Accuracy Limit  [%] | Test Result |
| 128.9 | 20.9956 | 21.0599 | -0.306227 | 10 | Passed |
| 131.2 | 57.8028 | 57.2997 | 0.870445 | 10 | Passed |
| 133.4 | 101.061 | 100.479 | 0.575628 | 10 | Passed |
| 135.8 | 139.006 | 138.996 | 0.00769828 | 10 | Passed |
| 138.1 | 139.006 | 138.995 | 0.0080296 | 10 | Passed |
| 140.6 | 139.006 | 138.995 | 0.00831522 | 10 | Passed |
| 143.1 | 139.006 | 138.994 | 0.0085934 | 10 | Passed |
| 145.7 | 112.255 | 112.809 | -0.49372 | 10 | Passed |
| 148.2 | 64.4433 | 65.0704 | -0.973161 | 10 | Passed |
| 150.7 | 20.9956 | 21.0599 | -0.306265 | 10 | Passed |
| 153.2 | 20.9956 | 21.062 | -0.31631 | 10 | Passed |
| 155.6 | 20.9956 | 21.0571 | -0.292961 | 10 | Passed |
| 158.0 | 20.9956 | 21.0603 | -0.308475 | 10 | Passed |
| 160.4 | 20.9956 | 21.0594 | -0.304169 | 10 | Passed |
| 162.8 | 46.7986 | 47.2998 | -1.07102 | 10 | Passed |
| 165.4 | 95.7674 | 99.2349 | -3.62075 | 10 | Passed |
| 168.1 | 134.092 | 142.052 | -5.93623 | 10 | Passed |
| 170.6 | 134.092 | 142.079 | -5.95616 | 10 | Passed |
| 173.2 | 134.092 | 142.083 | -5.95915 | 10 | Passed |
| 175.6 | 134.092 | 142.087 | -5.96162 | 10 | Passed |
| 178.3 | 100.511 | 109.506 | -8.95018 | 10 | Passed |
| 181.0 | 50.4224 | 57.3614 | -13.7618 | 10 | Failed |

## 测试数据记录

